CEMENT AND LIME MANUFACTURE

Published by Concrete Publications, Ltd., 14 Dartmouth Street, London, S.W.1

INDEX TO VOL. XXXIII, 1960

PAGE

Accidents in the cement industry 58

AUTHORS:

Alexander, K. M. and J. Wardlaw, on The shrinkage of cement paste during drying 13
on The effects of carbonation on the shrinkage and crazing of hydrated cement 70
Blakey, F. A. and B. Kroone, on The action of carbon dioxide on cement mortar 39
Bloem, D. L. and S. Walker, on Variation of the strength of Portland cement 27
Ford, C. L., on The determination of the manganese, sodium and potassium content of cement by flame photometry 5
Jackson, Frank H., on The durability of concrete 11
Kroone, B. and F. A. Blakey, on The action of carbon dioxide on cement mortar 39
Mitra, J. N., and K. S. Mukherjee, on A method for the determination of the amount of cement in mortar and concrete 87
Neville, A. M., on Recovery of creep in mortars made with different cements 9
Walker, S. and D. L. Bloem, on Variation of the strength of Portland cement 27
Wardlaw, J. and K. M. Alexander, on The shrinkage of cement paste during drying 13
on The effects of carbonation on the shrinking and crazing of hydrated cement 70
Wright, P. J. F., on Variation of the strength of Portland cement 27
Associated Portland Cement Manufacturers Limited 60
Automatic crushing, storing, and blending plant for raw materials 1
Automation at a cement works in U.S.A. 65
Bag-opener, A portable 95
Britain, Developments at a cement works in ... 49
Carbon dioxide on cement mortar, The action of, by B. Kroone and F. A. Blakey 39
Carbonation on the shrinking and crazing of hydrated cement, The effects of, by K. M. Alexander and J. Wardlaw 70

CEMENT INDUSTRY ABROAD:

Australia 88
Canada 46, 62

PAGE

Europe 94
Formosa 12, 30
France 46
Hungary 31, 63
India 53, 62
Italy 46
Japan 47
Pakistan 62
Philippines 17
Russia 62
Shanghai 31
Spain 47
Sweden 63
Switzerland 31
Syria 47
Tasmania 62
Thailand 31
Turkey 47, 62
U.S.A. 46, 62
Chimneys at a British cement works, Reinforced concrete 75
,, Reinforced concrete 73
Concrete, A method for the determination of the amount of cement in mortar and, by J. N. Mitra and K. S. Mukherjee. 87
,, in the Iron age 77
,, in sea water 93
,, The durability of, by Frank H. Jackson ... 11
Congresses, Reports on chemical 32
Crazing of hydrated cement, The effects of carbonation on the shrinking and, by K. M. Alexander and J. Wardlaw 70
Creep in mortars made with different cements, Recovery of, by A. M. Neville 9
Dry-process kiln with preheaters 81
,, works, Improvements at an American... 33
Durability of concrete, by Frank H. Jackson... ... 11
Europe in 1959, The cement industry in 94
Feeder for limestone plant, Large pan- 80
Filter bags of wool and nylon 13
Flame photometry, The determination of the manganese, sodium and potassium content of cement by, by C. L. Ford 5

PAGE

Fuel, Sampling solid 45
Grinding mills, The control of 10
High-alumina cements 90
Hungary, Reconstruction of a cement works in ... 63
Isotopes in the cement industry, The use of radio-active 55
Italian cements 69
Japanese Cement Association 91
Kiln with preheaters, A dry-process... 81
Kilns, Cement materials and 69
„ controlled by amplidynes, Speed of 14
Lime industry in U.S.A. 61
„ industry, Research in 85
„ kilns, Increasing the efficiency of 25
„ New and revised U.S.A. standards for ... 61
Limestone plant, Large pan-feeder for 80
Low-heat slag cement 91
Manganese, sodium and potassium content of cement by flame photometry, The determination of the, by C. L. Ford 5
Materials and kilns, Cement 69
Mortar and concrete, A method for the determination of the amount of cement in, by J. N. Mitra and K. S. Mukherjee. 87
Mortars made with different cements, Recovery of creep in by, A. M. Neville 9
Particles, Measurement of the size of 14

PATENTS :

Burning cement 15
Grinding cement 15
Magnesia cement 96
Making cement 7, 96
Slag cement 31
Slurries 15
„ Solids in 15
„ Viscosity of 15
Water-repellent cement 64
Peat-cement concrete 86
„ Cement from 86
Phosphate-bearing raw material 89

PAGE

Potassium content of cement by flame photometry, The determination of the manganese, sodium and, by C. L. Ford 5
Preheaters, A dry-process kiln with 81
Production of cement for 1959, Census of 92
Pump for pulverised materials, A new... 47
Radioactive isotopes in the cement industry, The use of 55
Raw materials, An automatic crushing, storing, and blending plant for 1
Research Board, Problems on cement investigated by the Building 89
„ in the cement industry, The cost of ... 64
Russia, A large cement works in 8, 29
Sea water, Concrete in 93
Shrinking and crazing of hydrated cement, The effects of carbonation on the, by K. M. Alexander and J. Wardlaw. 70
Shrinkage of cement paste during drying, The, by K. M. Alexander and J. Wardlaw 13
Slag cement in India, The production of 53
„ cement, Low-heat 91
„ cements, Revision of French standards for ... 54
Slags for cement 89
Sodium and potassium content of cement by flame photometry, The determination of the manganese, by C. L. Ford 5
Standards for cement, Revisions to U.S.A. 59
„ for lime, New and revised U.S.A.... ... 61
„ for Portland cement, Revised foreign ... 23
„ French 23
„ South African 23
„ for slag cements, Revision of French ... 54
Strength of Portland cement, Variation of the, by S. Walker and D. L. Bloem and P. J. F. Wright ... 27
Supersulphate cements 90
Symposium, International 64
Terminology and testing of cement 29
Testing of cement, Terminology and 29
U.S.A., A new cement works in 19
„ Automation at a cement works in 65
„ Lime industry in 61
„ Standards for cement, Revisions to 59